Diagrammatize (10):

1- T.S of *Anisi vulgaris* fruit.

2- Microscopical characters of *Glycyrrhiza* root

behind

papar

Choose the correct answer (12)

1- *Carapichea ipecacuanha*, β-ololiuqui is used in

a- Spain

a- Russia

b- Iran

perasia

2- Simple fruits is formed from

a- a single flower with many ovaries

b- one single

c- inflorescence

3- Strong bases of opium is

a- morphine

b- papaverine.

c- pencapine

4- **Rio (Ipecacuanha)root is cultivated in:**

a- Colombia,

b- Nicaragua

c- Brazil

5- study of unorganized drug, test needed

a- density

b- under section of drug

c- both a and b

6- mucil covering trichom with $CaCO_3$ is found in:

a- cassura

b- cannabis

c- opium

7- anise has estrogenic activity because of

a- linalool

b- anethole

c- fixed oil

8- which of these compounds responsible for the froth of liquorice

a- flavonoids

b- Triterpenoids saponin-

c- alkaloids

9- branched vittae is found in

a- anise

b- caraway

c- cumin

10-**ergotmine is used for**

a- labour

b- migraine

c- heart failure

11-Papaverine, is used as

a- cough

b- smooth muscles relaxant

c- CNS depressant

12-raphides of CaOX is found in

a- Glycyrrhiza glabra

b- *Carapichea ipecacuanha*

c- *Aloe perryi*

Find 6 incorrect statements and rewrite them in your answer sheet(12):

Spanish

Russian

1- **Russian liquorice has sweet taste and free from bitterness while Spanish is sw**

completely free from bitterness.

2- Ergot is the dried **sclerotium** of a fungus *Claviceps purpurea*.

parts

3- organized drugs are acellular structure and are obtained from parts of plant & an

Flavonid

4- Glycyrrhizin, responsible to the yellow color of liquorice while flavonoid is resp

Glycyrrhiza

sweet taste

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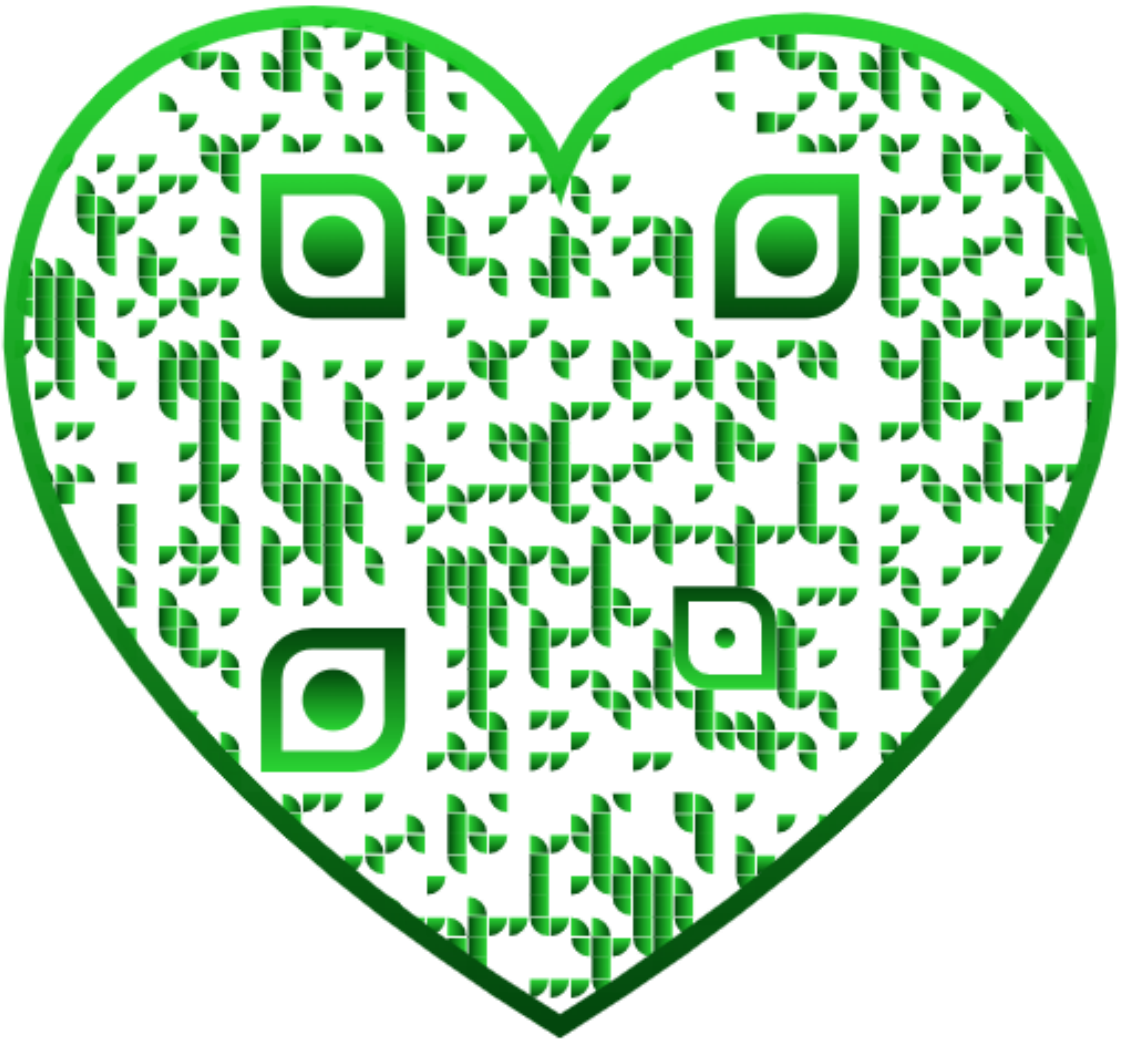

Cannabis consist of the dried flowering and fruiting tops of male plants from which no resin has been remove of Cannabis sativa.

8- Peru balsam is obtained from Peru and used as purgative. Tolu

9- The active compounds of ergot are derivatives of (+)-isolysergic acid while un-active are derivatives of (+)-lysergic acid → active

10- Opium is the dried latex obtained by incising the unripe capsule of *Papaver somniferum*

B-answer the following question (12):

1- Why liquorice is better than cortisons due to Liquorice is destory by
2- What is the advantages of Ergometrine?
3- Define **Ergotism**?
4- How to identify ergot in flour?
5- Specific chemical test for isobarbaloin?

the answer is behind paper

E-Complete the following table (18):

plant	Botanical name	Active compounds	uses
Vinca	Catharanthus roseus	vincaristine vinblastine	anti neoplas Leucaklma
Ipecacuanha	Carapichea Ipecacuanha	alkaloid=emetic non phenolic alka psychotrine cephaelin	expectore emetin amoibe
Acacia Gum	Acacia Senegle	Arabian (polyuronide) enzym rhamnus	Emulsif agent
Ammi majus	Ammi majus	Furancurmin psralene	Leucod psoras

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